

Instructions for USB Intelligent electronic load

NOTE:

This product has no reverse connection protection, the input polarity cannot be reversed, otherwise the product is permanently damaged and cannot be repaired.

Technical Parameters:

Rated operating voltage: DC 4-25.0V

Max discharging power: 25W

Rated operating current: 0.25-4.00A (when fan doesn't work, the minimum constant current is 0.05A)

Fan speed: Oil bearing intelligent temperature control fan, speed 5800±10%RPM

Constant current resolution: ±(1%+3digits)

Heat dispatch method: intelligent temperature control fan +Aluminum heat sink

Working temperature: -10°C~+40°C

Adjustable potentiometer: precision multiloop adjustable potentiometer

Display mode: 4 bit LED tube

Expansion port: Micro USB port, Type-C port

Product size: 84x41x28mm

Product Structure:



A. Micro USB port (MAX current 2A)

B. USB male port (widened power wire, MAX current 5A)

C. Type-C port (MAX current 4A)

D. Aluminum heat sink

E. Intelligent temperature control fan

F. LED display

G. Precision multiloop adjustable potentiometer

H. "SET" button: press "SET" to switch display status, Press and hold the button to set the load output recovery mode after protection removed.

I. "ON/OFF" button: press the button to open or close output. Press and hold the button to set the boot default status of open or close.

Function Introduction:



picture 1



picture 2



picture 3

A. Protection function:

OVP (over-voltage protection): there is OVP at 25V-30V; it will be damaged permanently over 30V; at OVP mode, LED shows OVP, as picture 1 shows.

OTP (over-temperature protection): when load temperature is over 80°C, the LED shows OTP, as picture 2 shows.

OPP (over-power protection): when the power is over 25W, the LED shows OPP, as picture 3 shows.

B. Set output recovery mode after load entering protection status, manual or automatic

C. View the voltage value, current value and power value of the load.

D. Intelligent temperature control fan. When the power is over 10W or the temperature is over 40°C, the fan will start automatically.

E. Precision multiloop adjustable potentiometer: you can adjust the current precisely, precision up to 0.01A, therefore, the power supply will not be damaged due to mistakenly adjustment.

F. You can set default boot status freely, open or close.

Operation Instruction:



picture 4



picture 5

The load is powered at the range of 4-25.0V (the input polarity cannot be reversed, otherwise the product is permanently damaged and cannot be repaired), the LED will be flashing to remind current setting value, waiting for output. Press **ON/OFF** button, open output to start work.

1. Adjust output current value.

Turning the potentiometer clockwise increases the output current value and anticlockwise decreases the value.

According to the needs, the potentiometer can realize coarse adjustment or fine adjustment. The fine adjustment can be accurate to 0.01A.

2. Adjust LED display status

Press "SET" to adjust the LED display status, default display output current value. Press "SET" button to display *.*A, *.*P, *.*V followed by recycling.

3. Open or close load output

Press **"ON/OFF"** button, you can open or close load output.

4. Set load default boot status (on or off status, Factory default off status)

Press and hold **"ON/OFF"** button to set load default boot status. Press and hold **"ON/OFF"** button, if the LED will display "--ON", as picture 4, the load will open output when power on next time; If the LED display "-OFF", as picture 5 show, the LED will display current value flashing at last shutdown when power on next time, then press **"ON/OFF"** button to open output.

5. Set the load output recovery mode after protection removed.

Press and hold "SET" button to set output recovery mode after protection removed. Press and hold "SET" button, if the LED will display "--ON", as picture 1, and the protection was removed, the load will recover to work; if the LED display "-OFF", as picture 2, and the protection was removed, the LED still show protection status, then press "ON/OFF" button, the display will display present setting current flashing, then press "ON/OFF" button again, the load recover to work.

NOTE: Please check the output current of power bank carefully. The current of the general power bank is generally small, so adjust smaller current when the load was used.

Application:

Assist to test whether the Micro USB cable is good or not

Assist to test whether the Type-C cable is good or not

Assist to test output current capacity of the charger